

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040506 A1

(51) International Patent Classification⁷: **G06K 19/06**

(74) Agents: **PARK, Kyungwan et al.**; KCAI Bldg., 6th Fl., 615, 159-6 Samsung-dong, Gangnam-gu, Seoul 135-728 (KR).

(21) International Application Number:
PCT/KR2003/002284

(22) International Filing Date: 28 October 2003 (28.10.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0066980 31 October 2002 (31.10.2002) KR

(71) Applicant (for all designated States except US): **ICON-LAB, INC.** [KR/KR]; Eunsung Bldg., 4Fl., 677-2, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KIM, Kyoung Tae** [KR/KR]; Ujung Jutack A-204, #309-74 Haengdang-dong, Sungdong-gu, Seoul 133-868 (KR). **KWON, Dong Jin** [KR/KR]; Dongbu Apt. 122-202, Jangmimaul, Yatap-dong, Bundang-gu, Sungnam-si, Kyunggi-do 463-788 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

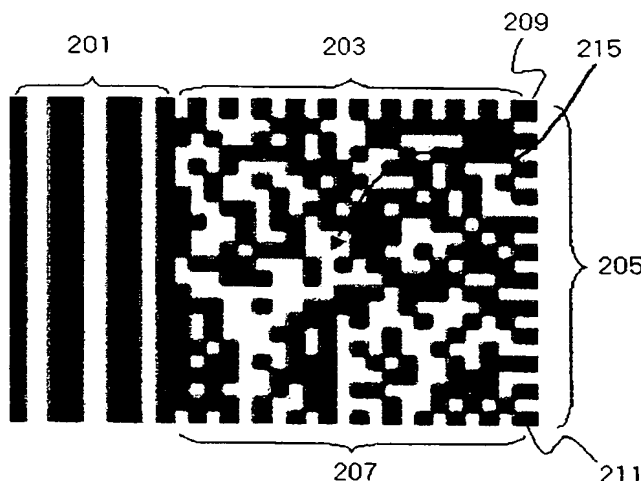
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TWO-DIMENSIONAL CODE HAVING SUPERIOR DECODING PROPERTY WHICH IS POSSIBLE TO CONTROL THE LEVEL OF ERROR CORRECTING CODES, AND METHOD FOR ENCODING AND DECODING THE SAME



(57) Abstract: Two-dimensional Code having superior decoding property which is possible to control the level of error correcting codes, and method for encoding and decoding the two-dimensional Code is provided. The two-dimensional code includes finding pattern area comprised finding patterns for discriminating the code area from whole image, timing pattern area comprised timing patterns for checking a position of data area from the whole code and positions of each cells of the data area, and data area inputted various kinds of data and decoding information of data itself.

WO 2004/040506 A1